



SINGLE FAMILY RESIDENCE CHECKLIST - 2006 IRC

The following are some of the basic or frequently overlooked code requirements that must be detailed on plans for Single Family Dwellings and may be useful as a checklist for the designer. This list is not intended to be exhaustive of all possible requirements. The comprehensive list of requirements is contained in the Construction Code and City Code of Ordinances. Neither this list nor the code may be construed to allow deed restriction violations. Inconsistencies between details will be noted as needing to be corrected.

GENERAL REQUIREMENTS

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CODE REFERENCE	REQUIREMENTS	1
IRC R105.1	RESIDENTIAL PERMIT APPLICATION	
APPLICATION	Owner's Project Manager contact info	
IRC R108. 3	Cost of construction (material and labor at industry costs, permanent equipment, and overhead) documentation required if below minimum cost per square foot	
IRC 105.3	Legal description	
IRC 101.2	Number of Stories	
ORD 10-552	Deed Restriction affidavit	

CODE REFERENCE	REQUIREMENTS	>
ORD 47-18.1	WASTEWATER - TAPS & METERS	
ORD 47-8, 47-18	Water meter account	
ORD. 47-316 – 47-326	Wastewater capacity application and fees or exemption form	
ORD 47-7, 47-11	Utility connection locations	
ORD 47-601 - 47-676	Water/Sewer – Storm Water	
ORD 47-11, 47-12	Wastewater - Sewer	
ORD 19	FLOOD (Federal Requirements)	
ORD 40-82 - 40-99& IDM*	TRAFFIC	

SPECIFIC REQUIREMENTS

CODE REFERENCE	REQUIREMENTS	✓
IRC R105.3 & R106.2	SITE PLAN W/ LEGAL DESCRIPTION	
IRC R106.2	Dimension	
ORD 33-123-33-128	Landscape form for trees	
ORD 42-180 – 42-184	Replat for multiple dwellings on one lot	
ORD Storm Water, 47-	Must be six (6) inches off property line if	
601 – 47-676	roof drains to one side (cannot drain onto	
ODD 40 450 40 400	neighbors property)	
ORD 42-150 – 42-162 ORD 10-32	Building setbacks (building lines)	
IBC Appendix J	Easements Grading Worksheet - fill & excavation	
IBC Appendix 3	Res. Site Improvement Permit	
	w/common area agreement (shared	_
	utility or egress)	
IRC R106.1	ENGINEERS SEAL (When required)	
IRC R106.1	Required on foundations	
IRC R106.1	Required on structural steel	
IRC R106.1	Required for prefab trusses, & beams	
IRC R106.1	Stairs & ramps	
IRC R106.1	Required for masonry >2' and fences > 8'	
IRC R106.1	Windstorm designs other than App. L	
IBC 1704	Special inspections for welding, bolting,	
	piers, and post-tension designs	
Engineering Practice Act	Signed and dated after latest revision, by engineer responsible for those revisions	
IRC R106.1.1	FLOOR PLANS (Sufficient clarity)	
IRC R106.1.1	Room labels "according to use"	
IRC R106.1.1	Dimensions	-
IRC Chap. 4	FOUNDATION PLAN	
IRC R401	References on plans to specific details	
IRC R403.1	Beam sections	<u> </u>
IRC R404.4.6	Reinforcement details	
IBC 1704	Drilled pier details "special inspection	
IRC Chaps. 5, 6 & 8	FRAMING PLANS	
Chap. 5-floors, 6-walls & 8 roof/ceil.	Wall Sections – Foundation to ridge	
	Floor, ceiling & roof framing details	
IRC R1102	Insulation R-values Ref: I.E.C.C.	
IRC R309.2 Table 702.3.5	Garage separation – ½ inch gypsum board except ceiling below habitable space must	
Table 702.3.3	be 5/8 inch Type X	_
IRC Chaps. 5-floor,	Lumber size, grade, species, and spacing	
6-walls & 8-roofs	for studs, joists, rafters	
IRC R301, and	Windstrapping from Appendix L, or sealed	
Appendix L	engineered design	
R602.10.3 wall R802.11	Wind bracing details-Ref 301.2(4) 110mph wind speed	
IRC R602.3.1		
IRC R602.3.1	Nailing schedule Attic access 22"x30" if no equipment, or	
M1305.1.3	30"x54" & 350lb load ladder if equip in attic	
IECC 303.2	Framing dimension must be large enough	
	to allow for R-value insulation thickness	
IRC R106.1.1	Rafter layout and gutters at property line	
IRC & IBC	RATED WALLS - PROTECTED OPENI	
IBC Tables 720.1 (1-3),	Fire-rating and design numbers UL, USG,	
UL or Gypsum Manual	IBC Ch 7 (keyed to assemblies on plan)	
IRC R302.1	Ext. wall <3' to property line must be 1hr fire-rated w/max. 1/3 distance overhang	
IBC 2110.1.1(.1)	45 minute fire-rated glass block masonry	_
	units, otherwise no openings	
IBC 720.1 (1) struct.	Attach photocopies of fire-rated design	
IBC 720.1 (2) walls	data from approved agency to the plans	
IBC 720.1 (3) roofs	(IE: UL, USG, or IBC Chap. 7)	
IRC R317.2.2	Townhouse roof parapets or class B	
	w/penetrations 5' away	

	REQUIREMENTS	1
CODE REFERENCE IRC R313	SMOKE DETECTORS	
IRC R313.1	Must be hard wired, and interconnected with battery backup.	_
IRC R313.2	Located in all bedrooms	
IRC R313.2	Areas providing bedroom access (12 ft)	
IRC R313.2	On each floor level	
IRC R1003.1	FIREPLACE DETAILS (Need type)	
Figure R1001.1 and IRC R1003.9	Chimney termination 2 feet higher than any portion of structure within 10 feet	
IRC R1003 masonry R1001.9, 10 hearth	If masonry, full details w / hearth dimension and floor material distinction	
IRC R310 & R311	EXITS - EMERGENCY ESCAPE & RESO	CUE
IRC R310 a K377	Egress windows from bedroom	
IRC R310.1.1	5'-0" sq. ft. openable at grade and 5'-7" sq. ft. openable above grade	_
IRC R310.1.2	Min. 24" high opening	
IRC R310.1.3	Min. 20" wide opening	
IRC R311.4	Exit Door (one 3'-0" by 6'8")	
IRC Chap. 3	STAIRS – GUARDS & HANDRAILS	
IRC 312.1 and 312.2	Guardrails – maximum 4" openings and 36" height	
IRC R3311.5.6.1	Handrails – 34" – 38" height	
IRC R311.5.3.1	Maximum 73/4" rise, minimum 10" run	
IRC R311.2.2	Enclosed useable space below stair must have ½" gypsum board	
R301.5 and Table 301.5	Live load design 200 lbs/sq. ft. guardrails	
IRC R308	SAFETY GLAZING (Required at)	
IRC R308.4.5	Shower and tub enclosures	J 🗅
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^{*} IDM = Infrastructure Design Manual

For further information and to check plan status, visit www.houstonpermittingcenter.org